

<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				<b>Docket Number (Optional)</b> <b>2269-4974.1US</b> <b>(00-0693.01/US)</b>		<b>Application Number</b> <b>Not Yet Assigned</b>	
				<b>Applicant</b> <b>Teck Kheng Lee</b>			
				<b>Filing Date</b> <b>April 22, 2004</b>		<b>Group Art Unit</b> <b>Unknown</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	4,807,021	02/1989	Okumura			
	5,347,159	09/1994	Khandros et al.			
	5,366,794	11/1994	Nakao			
	5,385,869	01/1995	Liu et al.			
	5,386,341	01/1995	Olson et al.			
	5,397,921	03/1995	Kamezos			
	5,409,865	04/1995	Kamezos			
	5,422,205	06/1995	Inoue et al.			
	5,438,477	08/1995	Pasch			
	5,448,511	09/1995	Paurus et al.			
PEP	5,504,277	04/1996	Danner			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	APPLICANT	CLASS	SUBCLASS	Translation	
						YES	NO
PEP	WO 99/65282	12/1999	Eide				
PEP	JP 2002-028702/04	09/1999	Katsumasa				
PEP	JP 2000-183082	06/2000	Hitachi Ltd.				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
PEP		U. S. Patent Application entitled MICROELECTRONIC DEVICES AND METHODS OF MANUFACTURE, filed August 30, 2001, Serial No. 09/944,465.
PEP		ISAAK, H. et al., "Development of Flex Stackable Carriers" IEEE Electronic Components and Technology Conference, 2000 Proceedings 50th, 5/21/2000-5/24/2000, Las Vegas, NV, USA, pp. 378-84, IEEE Catalog No: 00CH37070.
PEP		Copy of Australian Patent Office, Search Report, 30 May 2003, 4 pages.

<b>EXAMINER</b>  <b>/Pamela Perkins/</b>	<b>DATE CONSIDERED</b>  <b>06/20/2006</b>
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				Filing Date <b>April 22, 2004</b>		Group Art Unit <b>Unknown</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	5,598,033	01/1997	Behlen et al.			
	5,646,446	07/1997	Nicewarner, Jr. et al.			
	5,663,530	09/1997	Schueller et al.			
	5,668,405	09/1997	Yamashita			
	5,674,785	10/1997	Akram et al.			
	5,697,148	12/1997	Lance, Jr. et al.			
	5,710,071	01/1998	Beddingfield et al.			
	5,719,449	02/1998	Strauss			
	5,721,151	02/1998	Padmanabhan et al.			
↓	5,739,585	04/1998	Akram et al.			
PEP	5,747,982	05/1998	Dromgoole et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

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				Applicant <b>Teck Kheng Lee</b>			
				Filing Date <b>April 22, 2004</b>		Group Art Unit <b>Unknown</b>	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
PEP	5,752,182	05/1998	Nakatsuka et al.				
↓	5,758,413	06/1998	Chong et al.				
↓	5,798,285	08/1998	Bentlage et al.				
↓	5,798,567	08/1998	Kelly et al.				
↓	5,805,422	09/1998	Otake et al.				
↓	5,818,113	10/1998	Iseki et al.				
↓	5,834,338	11/1998	Takeda et al.				
↓	5,834,366	11/1998	Akram				
↓	5,834,848	11/1998	Iwasaki				
↓	5,835,355	11/1998	Dordi				
PEP	5,843,808	12/1998	Kamezos				
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<b>OTHER DOCUMENTS</b> <span style="float: right; font-size: small;">(Including Author, Title, Date, Pertinent Pages, Etc.)</span>							
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	5,844,168	12/1998	Schueller et al.			
	5,866,953	02/1999	Akram et al.			
	5,886,408	03/1999	Ohki et al.			
	5,891,753	04/1999	Akram			
	5,898,224	04/1999	Akram			
	5,973,389	10/1999	Culnane et al.			
	5,973,404	10/1999	Akram et al.			
	5,977,640	11/1999	Bertin et al.			
	5,982,030	11/1999	MacIntyre			
	5,984,691	11/1999	Brodsky et al.			
	PEP	5,990,545	11/1999	Schueller et al.		

FOREIGN PATENT DOCUMENTS							
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						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)


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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	5,991,161	11/1999	Samaras et al.			
	6,005,776	12/1999	Holman et al.			
	6,008,543	12/1999	Iwabuchi			
	6,011,694	01/2000	Hirakawa			
	6,013,948	01/2000	Akram et al.			
	6,020,629	02/2000	Farnworth et al.			
	6,024,584	02/2000	Lemke et al.			
	6,027,346	02/2000	Sinsheimer et al.			
	6,028,365	02/2000	Akram et al.			
	6,034,427	03/2000	Lan et al.			
	PEP	6,039,889	03/2000	Zhang et al.		

FOREIGN PATENT DOCUMENTS							
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	6,040,630	03/2000	Panchou et al.			
↓	6,050,832	04/2000	Lee et al.			
	6,057,178	05/2000	Galuschki et al.			
	6,060,782	05/2000	Ohsono et al.			
	6,064,114	05/2000	Higgins, III			
	6,072,233	06/2000	Corisis et al.			
	6,074,897	06/2000	Degani et al.			
	6,075,710	06/2000	Lau			
↓	6,079,991	06/2000	Lemke et al.			
	6,093,035	07/2000	Lemke et al.			
PEP	6,116,921	09/2000	Scholz et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<div style="font-size: 2em;">V</div>	PEP	6,124,631	09/2000	Cardot et al.		
		6,127,736	10/2000	Akram		
		6,137,062	10/2000	Zimmerman		
		6,137,164	10/2000	Yew et al.		
		6,137,183	10/2000	Sako		
		6,157,541	12/2000	Hacke		
		6,165,885	12/2000	Gaynes et al.		
		6,172,422 B1	01/2001	Chigawa et al.		
		6,179,598 B1	01/2001	Bränd		
		6,191,487 B1	02/2001	Rodenbeck et al.		
PEP	6,208,521 B1	03/2001	Nakatsuka			

FOREIGN PATENT DOCUMENTS							
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	6,212,768 B1	04/2001	Murakami			
	6,214,156 B1	04/2001	Takano et al.			
	6,218,202 B1	04/2001	Yew et al.			
	6,219,911 B1	04/2001	Estes et al.			
	6,221,763 B1	04/2001	Gilton et al.			
	6,225,688 B1	05/2001	Kim et al.			
	6,229,711 B1	05/2001	Yoneda			
	6,262,895 B1	07/2001	Forthun			
	6,291,775 B1	09/2001	Saitoh			
	6,294,455 B1	09/2001	Ahn			
	PEP	6,300,679 B1	10/2001	Mukerji et al.		

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	6,310,288 B1	10/2001	Moden			
	6,323,060 B1	11/2001	Isaak			
	6,413,102 B2	07/2002	Jiang et al.			
	6,429,516 B1	08/2002	Tsunoi			
	6,432,737 B1	08/2002	Webster			
	2002/0167092 A1	11/2002	Fee et al.			
	6,489,687 B1	12/2002	Hashimoto			
	6,492,737 B1	12/2002	Imasu et al.			
PEP	6,518,677 B1	02/2003	Capote et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

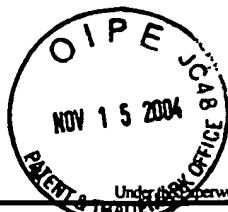
OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/829,647
Filing Date	April 22, 2004
First Named Inventor	Teck Kheng Lee
Group Art Unit	2812
Examiner Name	Unknown
Attorney Docket Number	2269-4974.1US (00-0693.01/US)

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
PEP		US-3,239,496	03/1966	Jursich	
		US- 4,074,342	02/1978	Honn et al.	
		US- 4,818,728	04/1989	Rai et al.	
		US- 5,148,265	09/1992	Khandros	
		US- 5,346,861	09/1994	Khandros	
		US- 5,404,044	04/1995	Booth et al.	
		US- 5,468,681	11/1995	Pasch	
		US- 5,489,804	02/1996	Pasch	
		US- 5,679,977	10/1997	Khandros	
		US- 5,683,942	11/1997	Kata	
		US- 5,742,100	04/1998	Schroeder et al.	
		US- 5,777,391	07/1998	Nakamura	
		US- 5,821,624	10/1998	Pasch	
		US- 5,905,303	05/1999	Kata	
		US- 6,022,761	02/2000	Gruppen-Shemansky et al.	
		US- 6,048,755	04/2000	Jiang et al.	
		US- 6,133,637	10/2000	Hikita et al.	
		US- 6,177,723	01/2001	Eng et al.	
		US- 6,217,343	04/2001	Okuno	
PEP		US- 6,222,265	04/2001	Akram et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
PEP		EP 684644	11/1995	Kata et al.		
PEP		EP 1009027	06/2000	Okuno		
PEP		KR 2001054744	07/2001	Choi et al.		x

Examiner  
Signature

/Pamela Perkins/

Date  
Considered

06/20/2006

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/829,647
				Filing Date	April 22, 2004
				First Named Inventor	Teck Kheng Lee
				Group Art Unit	2812
				Examiner Name	Unknown
				Attorney Docket Number	2269-4974.1US (00-0693.01/US)
Sheet	2	of	4		

U.S. PATENT DOCUMENTS					
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		Number - Kind Code <sup>2</sup> (if known)			
PEP		US- 6,232,666	05/2001	Corisis et al.	
		US- 6,242,932	06/2001	Hembree	
		US - 6,291,265	09/2001	Mess	
		US - 6,291,775 B1	09/2001	Saitoh	
		US - 6,295,730	10/2001	Akram	
		US - 6,338,985	01/2002	Greenwood	
		US - 6,468,831	10/2002	Leong et al.	
		US - 6,482,676	11/2002	Tsunoi et al.	
		US - 6,489,676	12/2002	Taniguchi et al.	
		US - 6,515,324 B2	02/2003	Shibuya et al.	
		US - 6,586,830 B2	07/2003	Saito	
		US - 6,714,418	03/2004	Frankowsky et al.	
		US - 6,744,122	06/2004	Hashimoto	
		US - 6,756,251	06/2004	Lee	
		US - 6,791,195	09/2004	Urushima	
		US - 2002/0045611 A1	04/2002	Abrams et al.	
		US - 2002/0079594 A1	06/2002	Sakurai	
		US - 2002/0142513 A1	10/2002	Fee et al.	
		US - 2002/0185661 A1	12/2002	Kawanobe et al.	
PEP		US - 2003/0134450 A1	07/2003	Lee	

[illegible]

Examiner Signature	/Pamela Perkins/	Date Considered	06/20/2006
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/829,647
		Filing Date	April 22, 2004
		First Named Inventor	Teck Kheng Lee
		Group Art Unit	2812
		Examiner Name	Unknown
		Attorney Docket Number	2269-497A IUS (00-0693 01/IUS)
Sheet	3	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PEP		AL-SARAWI et al., A A review of 3-D packaging technology,@ Components, Packaging, and Manufacturing Technology, Part B: IEEE Transactions on Advanced Packaging, Vol 21, Issue 1, Feb. 1998, pp. 2-14.	
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Examiner Signature	/Pamela Perkins/	Date Considered	06/20/2006
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**INFORMATION DISCLOSURE  
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Sheet 4 of 4

**Complete If Known**

Application Number	10/829,647
Filing Date	April 22, 2004
First Named Inventor	Teck Kheng Lee
Group Art Unit	2812
Examiner Name	Unknown
Attorney Docket Number	2269-4974 IUS (00-0693.01/IUS)

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T. <sup>2</sup>
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		TEO et al., "Enhancing Moisture Resistance of PBGA," <i>Electronic Components and Technology Conference</i> , 1998. 48 <sup>th</sup> IEEE, 25-28 May 1998, pp. 930-935.	
		TEUTSCH et al., "Wafer Level CSP using Low Cost Electroless Redistribution Layer," <i>Electronic Components and Technology Conference</i> , 2000. 2000 Proceedings. 50 <sup>th</sup> , 21-24 May 2000, pp. Pages: 107-113.	
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PEP		XIAO et al., "Reliability study and failure analysis of fine pitch solder-bumped flip chip on low-cost flexible substrate without using stiffener," <i>IEEE, 2002. Proceedings 52<sup>nd</sup></i> , 28-31 May 2002, pp. 112-118.	

Examiner Signature	/Pamela Perkins/	Date Considered	06/20/2006
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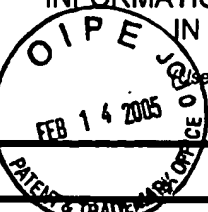
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Docket Number (Optional)  
2269-4974.1US (00-  
0693.01/US)Application Number  
10/829,647

Applicant Teck Kheng Lee

Filing Date April 22, 2004

Group Art Unit 2812



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PEP	5,723,347	03/1998	Hirano et al.			
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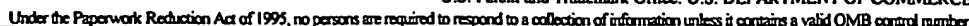
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Sheet	1	of	1
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Application Number	10/829,647
Filing Date	April 22, 2004
First Named Inventor	Teck Kheng Lee
Group Art Unit	2812
Examiner Name	Unknown
Attorney Docket Number	2269-4974.1US (00-0693.01/US)

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Application Number	10/829,647
Filing Date	April 22, 2004
First Named Inventor	Teck Kheng Lee
Group Art Unit	2822
Examiner Name	Unknown
Attorney Docket Number	2269-4974.1US (00-0693.01/US)

## U.S. PATENT DOCUMENTS

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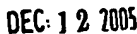
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Application Number	10/829,647
Filing Date	April 22, 2004
First Named Inventor	Teck Kheng Lee
Group Art Unit	2822
Examiner Name	Unknown
Attorney Docket Number	2269-4974.1 US (00-0693.01/US)

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Sheet	1	of	1
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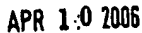
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1

Application Number

10/829,647

**Filing Date**

**April 22, 2004**

First Named Inventor

Teck Kheng Lee

### Group Art Unit

2822

**Examiner Name**

Unknown

Attorney Docket Number

2269-4974.1 US (00-0693.01/US)

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